

Title (en)

Mutants of cholesterol-dependent cytolysins and uses thereof

Title (de)

Mutanten von cholesterinabhängigen Cytolysinen und Verwendungen davon

Title (fr)

Mutants de cytolisines dépendantes du cholestérol et leurs utilisations

Publication

**EP 2386567 B1 20141029 (EN)**

Application

**EP 11174235 A 20080414**

Priority

- EP 08827230 A 20080414
- US 92328107 P 20070413

Abstract (en)

[origin: WO2009023300A2] Mutants of cholesterol-dependent cytolysins comprising at least one amino acid substitution in at least one of Loop 1, Loop 2, or Loop 3 of Domain 4, nucleic acids encoding such polypeptide mutants, and compositions and vaccines comprising such polypeptide mutants.

IPC 8 full level

**C07K 14/195** (2006.01); **A61K 38/16** (2006.01); **C07K 14/31** (2006.01); **C07K 14/32** (2006.01); **C07K 14/33** (2006.01); **C12N 15/31** (2006.01)

CPC (source: EP US)

**C07K 14/195** (2013.01 - EP US); **C07K 14/31** (2013.01 - EP US); **C07K 14/3156** (2013.01 - EP US); **C07K 14/32** (2013.01 - EP US); **C07K 14/33** (2013.01 - EP US); **A61K 38/00** (2013.01 - EP US); **A61K 39/00** (2013.01 - EP US)

Citation (examination)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2009023300 A2 20090219**; **WO 2009023300 A3 20090625**; AU 2008287286 A1 20090219; AU 2008287286 B2 20131010; BR PI0810211 A2 20141021; CA 2683748 A1 20090219; CA 2683748 C 20160216; EP 2147015 A2 20100127; EP 2147015 A4 20110126; EP 2386567 A2 20111116; EP 2386567 A3 20120215; EP 2386567 B1 20141029; US 2009285846 A1 20091119; US 2012148624 A1 20120614; US 8128939 B2 20120306; US 9228001 B2 20160105

DOCDB simple family (application)

**US 2008060250 W 20080414**; AU 2008287286 A 20080414; BR PI0810211 A 20080414; CA 2683748 A 20080414; EP 08827230 A 20080414; EP 11174235 A 20080414; US 10269608 A 20080414; US 201213401460 A 20120221